

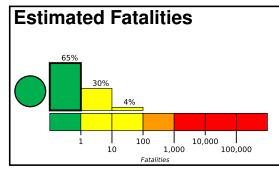




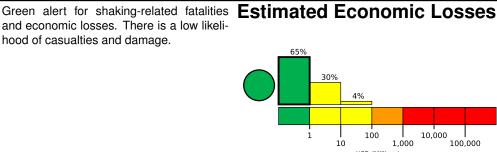
PAGER Version 4

Created: 2 hours, 5 minutes after earthquake

M 5.5, 19 km NE of Onagawa Ch, Japan Origin Time: 2023-09-18 19:33:04 UTC (Tue 04:33:04 local) Location: 38.5589° N 141.6239° E Depth: 64.4 km



and economic losses. There is a low likeli-



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	4,541k*	3,663k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

5000 143.1°E Kitakami Mizusawa onezawa Fukushin

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1987-12-17	368	6.5	VII(8,018k)	2
1994-12-28	269	7.7	VII(130k)	3
1983-05-26	304	7.7	VII(174k)	104

Recent earthquakes in this area have caused secondary hazards such as landslides and fires that might have contributed to losses.

Selected City Exposure

	ation
IV Ishinomaki	117k
IV Yamoto	32k
IV Kogota	20k
IV Wakuya	18k
IV Furukawa	76k
IV Matsushima	16k
IV Sendai 1,0	063k
III Yamagata	255k
III Morioka	295k
III Fukushima	294k
III Akita	326k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.